

CLAIMS

1. A nonhuman animal carrying a gene encoding a soluble form of a membrane protein.
- 5 2. The nonhuman animal of claim 1, which is a transgenic animal into which a gene encoding a soluble protein has been introduced exogenously.
3. The nonhuman animal of claim 2, which is a progeny of the transgenic animal into which a gene encoding a soluble protein has been introduced exogenously.
- 10 4. The nonhuman animal of any one of claims 1 to 3, wherein the membrane protein is derived from a virus.
5. The nonhuman animal of claim 4, wherein the virus is a baculovirus.
- 15 6. The nonhuman animal of claim 5, wherein the membrane protein is gp64.
7. The nonhuman animal of claim 6, wherein the soluble protein is gp64 that lacks a transmembrane region.
- 20 8. The nonhuman animal of claim 6, wherein the soluble protein comprises an extracellular region of gp64.
9. The nonhuman animal of any one of claims 1 to 8, wherein the nonhuman animal is a mouse.
- 25 10. The nonhuman animal of any one of claims 6 to 9, wherein the male is fertile.
11. A method for producing an antibody, which comprises the steps of:
 - 30 immunizing the nonhuman animal of any one of claims 1 to 10 with an immunogen comprising a target antigen; and
 - obtaining an antibody against the target antigen or a gene encoding such an antibody.
12. The method of claim 11 for producing an antibody, wherein the immunogen is a viral particle or a portion thereof.
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13. The method of claim 12 for producing an antibody, wherein the virus is a baculovirus.

14. The method of any one of claims 11 to 13 for producing an antibody, wherein the target antigen is a membrane protein.

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15. A system for producing an antibody, which comprises the nonhuman animal of any one of claims 1 to 10.